

CLAIM AMENDMENTS:

1-3 cancelled.

4. (new) A machine for superfinishing tools through honing or precision grinding, the machine comprising:

a spindle housing;

a honing spindle disposed in said spindle housing;

a first electromotor having a stator integrated in said spindle housing and a rotor borne for rotation within said stator, said rotor surrounding and rotating said honing spindle;

a linear motor having a moving part bearing said spindle housing for controlling a stroke motion of said honing spindle;

a bar disposed within said honing spindle for rotation therewith;

a second electromotor coaxially flanged to an end of said spindle housing, said second electromotor communicating with said bar for axial displacement thereof to widen a honing tool disposed on said honing spindle or to carry a grinding body.

5. (new) The machine of claim 4, wherein said second electromotor comprises a driven shaft which engages in a coupling piece and rotates same, said coupling piece comprising a plunger provided with an outer thread which engages in an inner thread of an adjusting sleeve which is axially displaced upon rotation of said coupling piece due to engagement of said inner and outer threads and to which a further sleeve is connected for axial displacement within a transmission housing without rotating, wherein a

connecting rod which can be connected to said bar is rotatably disposed in said further sleeve.

6. (new) The machine of claim 4, wherein said second electromotor comprises a linear motor whose runner and stator are round, wherein said runner is disposed in said stator to communicate with said bar.